



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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PATENT

Attorney Docket 054800-5098-01

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In re Application of: **Amy Arrow et al.**

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Application No. 09/211,794

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Examiner: **Mary M. Schmidt**

Filed: December 15, 1998

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Group Art Unit: 1635

For: Three Component Chimeric Antisense Oligonucleotides

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AMENDMENT UNDER 37 C.F.R. 1.114

In response to the Office Action dated July 30, 2001, the period for response having been extended to August 30, 2002 by the filing of a Notice of Appeal on January 30, 2002 and by the accompanying petition for a five-month extension of time, please amend this application as follows.

In the specification:

Please insert the following on page 1, line 3 of the specification:

--This is a continuation of U.S. Application 08/754,580 (filed November 21, 1996) now U.S. Patent 5,849,902.--

In the claims;

Please amend claims 1, 18 and 19 as follows:

1. (Once Amended) A chimeric antisense oligonucleotide comprising: a 5' terminus; a 3' terminus and from 11 to 59 5' → 3'-linked nucleotides which contiguously hybridize to a specific RNA and which are independently selected from the group consisting of 2'-modified phosphodiester nucleotides, and 2'-modified P-alkyloxyphosphotriester nucleotides; and wherein said 11 to 59 5' → 3'-linked nucleotides are divided by an RNase H-activating region which contiguously hybridizes to the specific RNA and comprises between three and ten contiguous phosphorothioate-linked deoxyribonucleotides, and wherein the 3' terminus of said oligonucleotide is drawn from the group consisting of: an inverted deoxyribonucleotide, a contiguous stretch of one to three phosphorothioate 2'-modified ribonucleotides, a biotin group, and a P-alkyloxyphosphodiester nucleotide, and wherein the 5' terminus of said oligonucleotide is drawn from the group consisting of: an inverted deoxyribonucleotide, a contiguous stretch of one to three phosphorothioate 2'-modified ribonucleotides, a biotin group, and a P-alkyloxyphosphodiester nucleotide.